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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,468	06/20/2006	Nafizal Hossain	06275-517US1 101307-1P US	1675
26164 FISH & RICH	7590 01/15/2008 ARDSON P.C.		EXAMINER	
P.O BOX 1022	2		AULAKH, CHARANJIT	
MINNEAPOL	IS, MN 55440-1022		ART UNIT	PAPER NUMBER
			1625	•
,			MAIL DATE	DELIVERY MODE
			01/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/583,468	HOSSAIN ET AL.			
		Examiner	Art Unit			
		Charanjit S. Aulakh	1625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		ı	•			
1)	Responsive to communication(s) filed on	<u>.</u>				
2a)[This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims		·			
4)🖂	4)⊠ Claim(s) <u>1-13 and 15-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-13 and 15-21</u> is/are rejected.					
·	Claim(s) is/are objected to.					
8)[8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9)🖂	The specification is objected to by the Examine	r.				
10)	The drawing(s) filed onis/ are: a) acce	epted or b)□ objected to by the t	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/20/06, 3/9/07. 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

- 1. According to a preliminary amendment filed on Feb. 27, 2007, the applicants have canceled claim 14 and furthermore, have amended claims 3-9, 12, 13 and 15-21.
- 2. Claims 1-13 and 15-21 are now pending in the application.

Specification

3. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1-13 and 15-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The following eight different factors (see Ex parte Foreman, 230 USPQ at 547; Wands, In re, 858.F. 2d 731, 8 USPQ 2d 1400, Fed. Cir. 1988) must be considered in order for the specification to be enabling for what is being claimed:

Quantity of experimentation necessary, the amount of direction or guidance provided, presence or absence of working examples, the nature of the invention, the state of the prior art, the relative skill of those in the art, the predictability or unpredictability and the breadth of claims. In the instant case, the specification is not enabling based on atleast

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four of the above mentioned eight different factors such as quantity of experimentation necessary, the amount of direction or guidance provided, presence of working examples, state of the prior art, unpredictability and the breadth of claims. In regard to lack of enablement issue of instant claims 1-13 and 15-21 for solvates of instant compounds of formula (I), there is no teaching or guidance present in the specification for preparing any specific solvates. Preparation of specific solvates of any compound is a very specialized field and involves their characterization using different techniques such as infrared spectrum, XRD powder diffraction etc. There is no teaching or guidance present in the specification regarding any specific solvents used for preparing specific solvates and their characterization using any techniques such as XRD powder diffraction or infrared spectrum etc. There is not even a single example present for preparing any specific solvate of instant compounds of formula (I). There is lot of unpredictability regarding stability of different solvates of any compound in the art. The instant compounds of formula (I) encompasses hundreds of thousands of compounds based on the values of variables R1-R5, n, m, p, q, t, X and Y and therefore, in absence of such teachings, guidance, presence of working examples and unpredictability, it would require undue experimentation to select specific solvates of instant compounds with enhanced stability properties. In regard to enablement rejection of claims 15-21 for methods of treatment, the

specification mentions on page 17 that the instant compounds are modulators of

32) and furthermore, mention an assay for studying an antagonist effect of instant

chemokine receptor (especially MIP-1 alpha chemokine receptor) activity (see lines 31-

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compounds in vitro on chemotactic response to MIP-1 alpha chemokine on pages 55-56. The specification teaches on page 1 that there are atleast more than 15 different types of chemokine receptors. Each of these separate types of chemokine receptors have different functions. There is no teaching or guidance present in the specification or prior art regarding various disease conditions where either hyperactivity or hypoactivity of each of these 15 different types of chemokine receptors is implicated. There is no teaching regarding antagonist activity observed of any compound in the THP-1 chemotaxis assay mentioned on pages 55-56. There is no teaching in the prior art that structurally closely related compounds having antagonist activity at MIP-1 alpha receptors are well known to have therapeutic utility in treating all disease conditions mentioned in instant claims 15-21. There are no working examples present showing efficacy of instant compounds in known animal models of rheumatoid arthritis, COPD, asthma, multiple sclerosis, any inflammatory disease or any airway disease. The instant compounds of formula (I) encompasses hundreds of thousands of compounds based on the values of variables R1-R5, n, m, p, q, t, X and Y and therefore, in absence of such teachings, guidance, presence of working examples and prior art, it would require undue experimentation to demonstrate efficacy of instant compounds in known animal models of rheumatoid arthritis, COPD, asthma, multiple sclerosis, every known inflammatory disease, every known airway disease and hence their utility for treating these disorders.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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7. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 does not end with a period.

Allowable Subject Matter

- 8. The following is a statement of reasons for the indication of allowable subject matter: The instant compounds of formula (I) are allowable over the prior art since they are neither disclosed nor obvious over the prior art. In the prior art, Hossain (WO 2004/005295, cited on applicant's form 1449) discloses tricyclic spiropiperidines or spiropyrrolidines of formula (I) which are closely related to the instant compounds (see page 2). However, the compounds of Hossain differ from the instant compounds in having different value (OH group) of instant variable R3 and furthermore, there is no teaching or guidance present in the prior art to modify the compounds of Hossain to prepare the instant compounds.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on (571)272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Charanjit S. Aulakh Primary Examiner Art Unit 1625